



**Chicago
Pneumatic**



Quality Air Solutions

People. Passion. Performance.

People. Passion. Performance.

Improve your business' productivity, quality and efficiency.

Quality air solutions will allow you to prevent corrosion, leakages, pollution and rust.

A compressor takes humidity and contamination from the intake air, during the compression process. These particles combine with the oil used in the compressor. All these impurities can cause wear and corrosion to the downstream equipments, with potential costly interruption to production, and reduction in the efficiency and service life of the equipment used. To reduce this negative impact, a whole range of Quality Air Solution products has been developed to ensure air quality, increase efficiency and productivity and lengthen the life span of your equipment and tools. In sum, with a range from dryers to filters, you can tackle several quality air problems at once, making them highly recommended components for every successful business.



Moisture



Particles



Oil



Hydrocarbons



Viruses



Bacteria

Discover the benefits that follow from using Quality Air Solutions as well as the risks you run into when you neglect the importance of qualitative compressed air.

With Air Treatment	Customer benefits	Without Air Treatment
IMMEDIATELY	Eliminate the water / dust produced during compressing process	GOES TO THE NET
ENSURE	Your air network is clean and protected against rust	HIGH RISK
SECURED	A clean air network reduces leakage	HIGH RISK
PROLONG	The life span of your operation process (machine / equipment..)	SHORTEN
PROTECT	Safe use of pneumatic tool, with extended life time	HARM
LOW	Maintenance cost of your air network (corrosion), operation process and potential downtime	HIGH
IMPROVE	Quality of the final product, and potential risk of product recalls	DECREASE
STABLE	Operating cost Control	VARIABLE
BOOST	Your productivity	REDUCE

Top air quality for high-end equipment and processes

Whichever is your compressed air need, Chicago Pneumatic can successfully help you to achieve the proper air quality class.

Compressed air according to ISO 8573-1:2010

Purity Class	Solid particles Number of particles per m ³			Water Pressure dewpoint		Total Oil* Concentration mg/m ³
	0,1 - 0,5 µm	0,5 - 1,0 µm	1,0 - 5,0 µm	°C	°F	
0	As specified by the equipment user or supplier and more stringent than Class 1.					
1	≤ 20.000	≤ 400	≤ 40	≤ -70	≤ -94	≤ 0,01
2	≤ 400.000	≤ 6.000	≤ 100	≤ -40	≤ -40	≤ 0,1
3	-	≤ 90.000	≤ 1000	≤ -20	≤ -4	≤ 1
4	-	-	≤ 10.000	≤ 3	≤ 37,4	≤ 5
5	-	-	≤ 100.000	≤ 7	≤ 44,6	-
6	≤ 5 µm/m ³			≤ 10	≤ 50	-

* Liquid, aerosol and vapour.

A glimpse of some application areas



Conveying

By using Chicago Pneumatic air treatment products you will be able to increase the lifetime of your production plant. Avoid expensive emergency maintenance and ensure easy, fast and reliable moving of your production chain.



Pharmaceuticals

For very sensitive applications where top air quality is indispensable, we can provide compressed air at the correct dew point and without solid contaminants giving you peace of mind regarding your production processes. Superior air treatment for superior quality products.



Metalwork

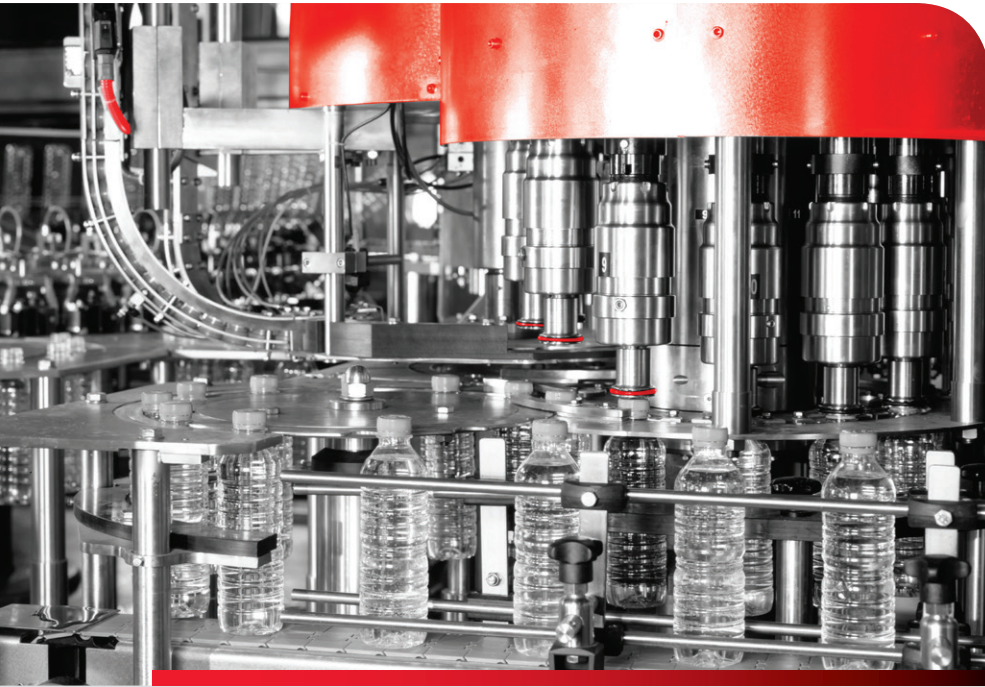
Avoiding water in compressed air and corrosion in the air network or tools is of key importance in the metal industry. Consequently, customers' air quality requirements are ever more strict. Anticipating this trend, we are close to you to always be a step ahead in the market with our innovative solutions.



Food industry

Zero risk at product contamination is a key focus in the food industry which also applies to the compressed air if it is in direct contact with the food itself. For this reason customers need to foresee a proper and complete air treatment system which allows for superior products.

CPX Refrigerant Dryers 21-5040 m³/h



Top Air Quality For High-End Equipment And Processes

The CPX refrigerant dryers guarantee dry and qualitative compressed air which prolongs the lifetime of your equipment and ensures a superior production quality. Water vapour is eliminated, avoiding corrosion in your compressed air network and tools. All in all this lowers your maintenance costs and improves your overall production process for complete peace of mind.

CPX Dryer Family



Robust structure

Reliable structure due to a robust canopy ensuring a safe installation independently of the environment



Electronic controller

Monitor the operations and dew point of your CPX dryer with the electronic controller.



Simple design

Simple layout for easy access and maintenance.



Highly efficient heat exchanger

The highly efficient heat exchanger safeguards your optimized cooling power and lowers pressure drops.

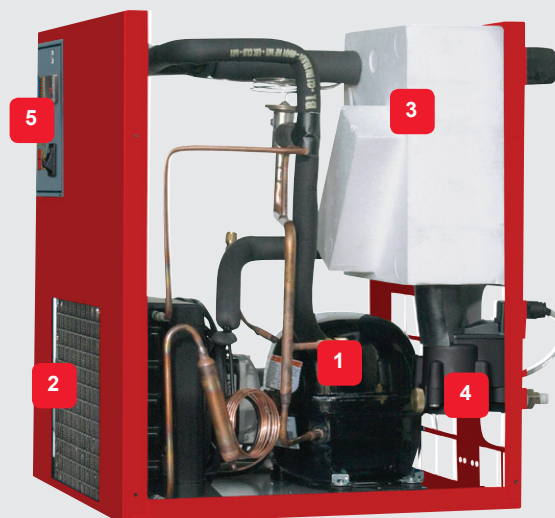


Capacitive drain

This capacity drain will allow you to save money by discharging only water.

Innovative design concept

1. Refrigerant compressor
2. Condenser
3. Heat exchanger with high thermal exchange and low pressure drop
4. Automatic condensate discharge
5. Electronic dew point indicator



Technical table

Type	🔌			⌚	🔊	👤	📏	Refrigerant Gas
	l/min	cfm	m³/h	Bar	dB(A)	kg	LxWxH (mm)	
CPX 10	350	12.4	21	16	50	19	350 x 500 x 450	R134A
CPX 20	600	21,2	36	16	50	19	350 x 500 x 450	R134A
CPX 30	850	30	51	16	47	20	350 x 500 x 450	R134A
CPX 40	1200	42,4	72	16	53	25	350 x 500 x 450	R134A
CPX 60	1825	64,4	110	16	53	27	350 x 500 x 450	R134A
CPX 80	2350	83	141	13	57	44	370 x 500 x 764	R404A
CPX 100	3000	106	180	13	57	44	370 x 500 x 764	R404A
CPX 125	3600	127	216	13	58	53	460 x 560 x 789	R404A
CPX 150	4100	145	246	13	58	60	460 x 560 x 789	R404A
CPX 180	5200	184	312	13	58	65	460 x 560 x 789	R404A
CPX 225	6500	230	390	13	59	80	580 x 590 x 899	R404A
CPX 270	7700	272	462	13	59	80	580 x 590 x 899	R404A
CPX 350	10000	353	600	13	60	128	735 x 898 x 962	R410A
CPX 425	12000	424	720	13	67	146	735 x 898 x 962	R410A
CPX 530	15000	530	900	13	67	158	735 x 898 x 962	R410A
CPX 700	18000	636	1080	13	68	165	735 x 898 x 962	R410A
CPX 850	24000	848	1440	13	70	325	1020 x 1082 x 1535	R404A
CPX 1000	30000	1060	1800	13	71	335	1020 x 1082 x 1535	R404A
CPX 1200	35000	1237	2100	13	71	350	1020 x 1082 x 1535	R404A
CPX 1500	45000	1589	2700	13	71	380	1020 x 1082 x 1535	R404A
CPX 1700	50000	1766	3000	13	74	550	1020 x 2099 x 1535	R404A
CPX 2500	70000	2472	4200	13	74	600	1020 x 2099 x 1535	R404A
CPX 3000	84000	2966	5040	13	74	650	1020 x 2099 x 1535	R404A

CP Filters 43-2430m³/h

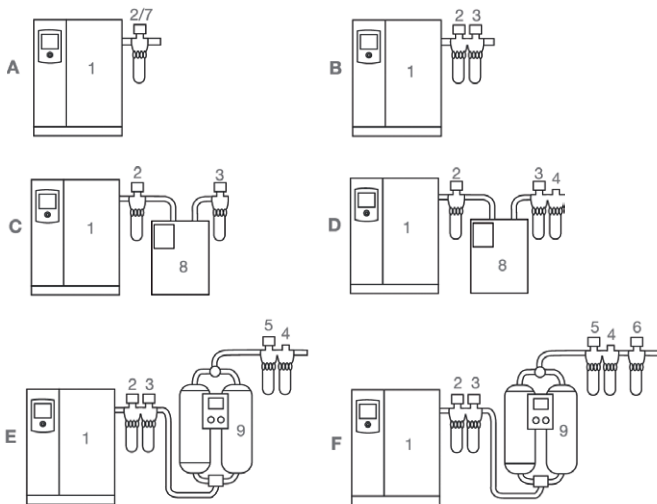


CP Filters

Thorough filtration for complete peace of mind

An unique combination of robustness and efficiency allows our high performance filters to purify your compressed air for complete peace of mind. Whichever your required purity, CP filters come in 6 variants offering a tailored solution for each situation.

Typical Installations



1. Compressor with after-cooler
2. G filter
3. C filter
4. V filter
5. S filter
6. D filter
7. P filter
8. Refrigerant dryer
9. Adsorption dryer

A. General purpose protection

(air purity to ISO 8573-1: G filter class 2:-:3 & P filter class 4:-:3)

B. General purpose protection and reduced oil concentration

(air purity to ISO 8573-1: class 1:-:2)

C. High quality air with reduced dew point

(air purity to ISO 8573-1: class 1:4:2)

D. High quality air with reduced dew point and oil concentration

(air purity to ISO 8573-1: class 1:4:1)

E. High quality air with extremely low dew point

(air purity to ISO 8573-1: class 2:2:1)

F. High quality air with extremely low dew point

(air purity to ISO 8573-1: class 1:2:1)

Six filter types to cover all purity requirements

G
Coalescing filters for general purpose protection, removing solid particles, liquid water and oil aerosol. Total Mass Efficiency: 99%.

For optimum filtration, a G filter should be preceded by a water separator.

D
High-efficiency particulate filters for dust protection. Count Efficiency: 99,97 % at Most Penetrating Particle Size (MPPS = 0,06 micron).
A D filter should be preceded by an S filter at all times and is commonly fitted after an adsorption dryer.

S
Particulate filters for dust protection. Count Efficiency: 99,81% at Most Penetrating Particle Size (MPPS = 0,1 micron).

An S filter should be preceded by a dryer at all times.

V
Activated carbon filter for removal of oil vapour and hydrocarbon odors with a maximum remaining oil content of 0,003 mg/m³ (0,003 ppm).
1000 hour lifetime.

C
High-efficiency coalescing filters, removing solid particles, liquid water and oil aerosol. Total Mass Efficiency: 99,9 %.

For optimum filtration, a C filter should be preceded by a G filter at all times.

P
Coalescing and particulate general purpose pre-filter. Removes solid particles, dust, liquid and oil aerosol. Total Mass Efficiency: 90%.



Several options to tailor the filtration to your needs



- Pressure gauge
- Dry contact mounted on the differential pressure gauge to give remote indication of the cartridge replacement



- Pressure indicator
- Serial Connection Kit allows easy mounting on filters in series
- Wall mounting kit to simplify the installation



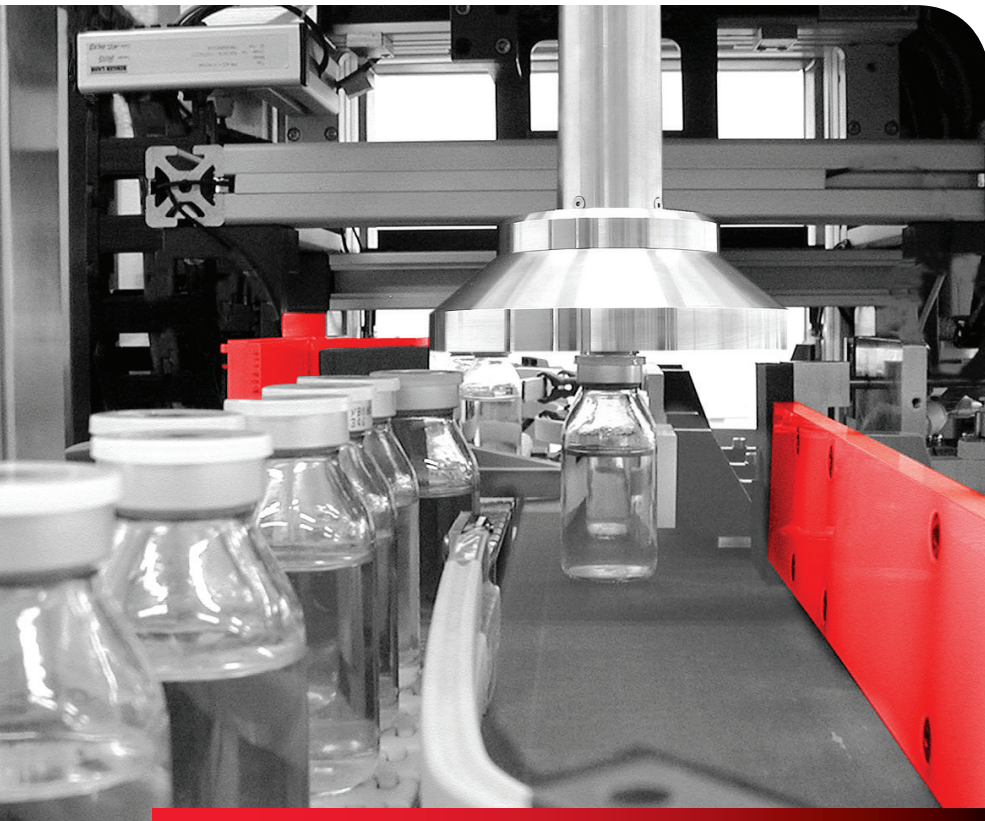
- Quick coupling for easy connection to fix an intelligent drain with no loss of compressed air

Filter type	Nominal Capacity*			Maximum pressure		Connections/ port thread	Dimensions			Free space for cartridge replacement	Weight
	l/min	m ³ /h	cfm	bar	psi		A	B	C		
FILTER 45	720	43	25	16	232	3/8"	90	21	228	75	1
FILTER 90	1500	90	53	16	232	1/2"	90	21	228	75	1,1
FILTER 125	2100	126	74	16	232	1/2"	90	21	283	75	1,3
FILTER 180	3000	180	106	16	232	3/4"	110	27,5	303	75	1,9
FILTER 180	3000	180	106	16	232	1"	110	27,5	303	75	1,9
FILTER 290	4800	288	170	16	232	1"	110	27,5	343	75	2,1
FILTER 505	8400	504	297	16	232	1 1/2"	140	34	449	100	4,2
FILTER 685	11400	684	403	16	232	1 1/2"	140	34	532	100	4,5
FILTER 935	15600	936	551	16	232	1 1/2"	140	34	532	100	4,6
FILTER 1295	21600	1296	763	16	232	2"	179	50	618	150	6,9
FILTER 1295	21600	1296	763	16	232	2 1/2"	179	50	618	150	6,9
FILTER 1890	31500	1890	1112	16	232	3"	210	57	720	200	11,0
FILTER 2430	40500	2430	1430	16	232	3"	210	57	890	200	12,6

* Reference condition: pressure 7 bar (102 psi). Maximum operating temperature of 66°C, and 35°C, only for V series. Minimum operating temperature of 1°C. For partnumbers please contact your local customer center



Condensate Management LD Condensate Drains



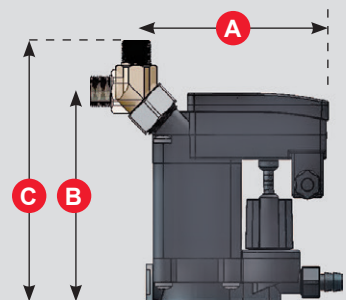
Take care of your compressed air system

Compressed air contains water, particles and degraded lubricating oil, which all mix together forming an unwanted condensate. The LD Condensate drains offer the most efficient way to remove this condensate without any compressed loss. Avoid wear and corrosion of your entire compressed air system, harmful production stops and limit maintenance costs and tackle condensate



Technical table

Type	Max. working pressure bar (psi)	Max. compressor perform. mc/h	Max. dryer perform. mc/h	Max. filter perform. mc/h	Voltage Volt / Hz. / Ph.	Connection gas	A mm.	B mm.	C mm.	Weight Kg.
LD 200	16 (232)	900	1800	9000	230/50-60/1	1 X 1/2" M BSP	132	132	164	0,7
LD 202	16 (232)	1800	3600	18000			132	192,4	224	1,2
LD 203	16 (232)	9500	19000	95000			132	208	239,6	2,8

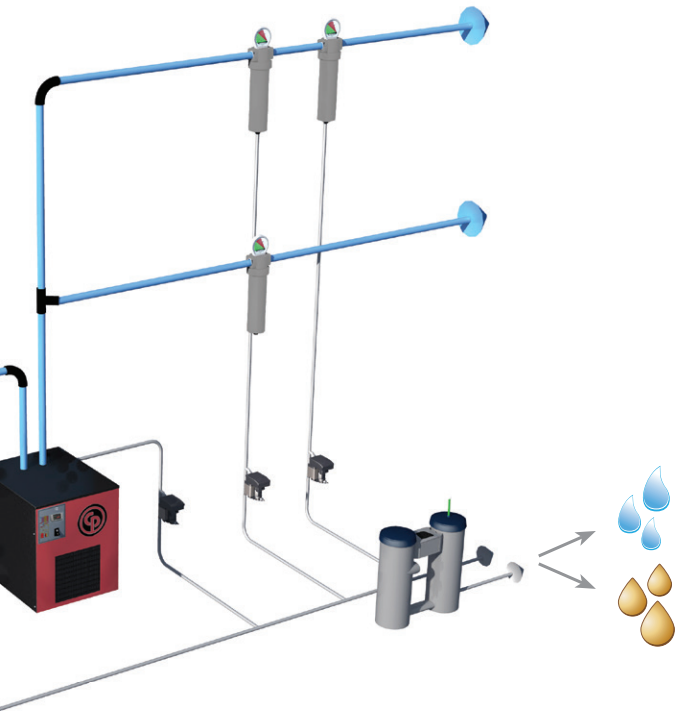


Condensate Management CPP Oil-Water Separator

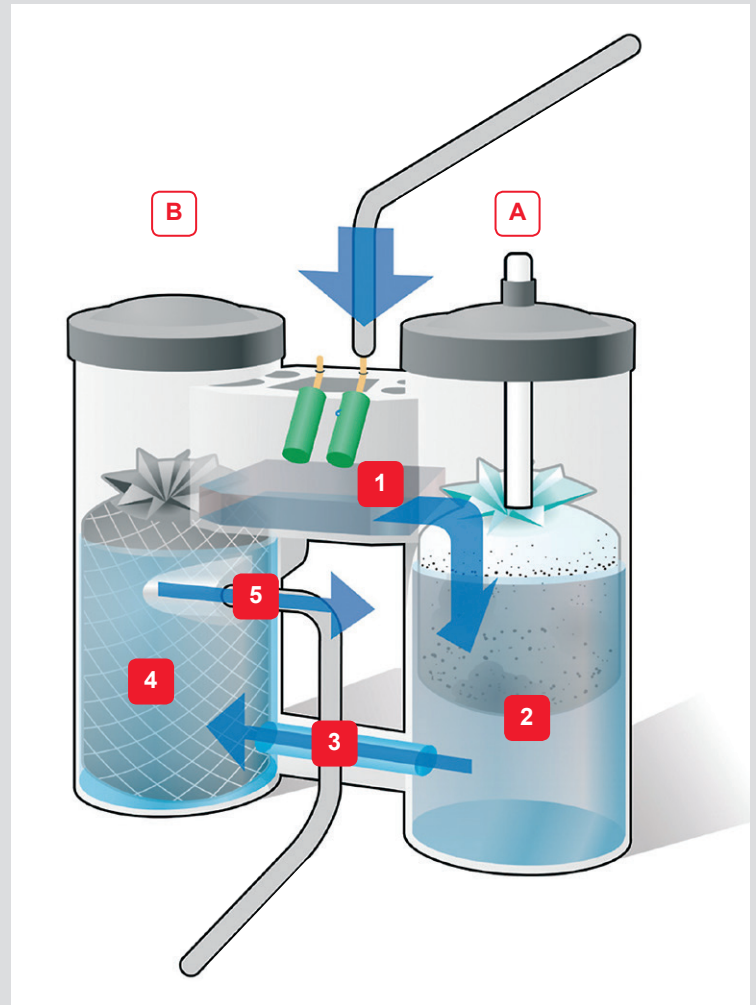


Take environmental responsibility and respect legislation

To be compliant with local legislation and to preserve the environment, the condensate that has been removed from the compressed air still has to be cleaned. To avoid high treatment costs, our oil-water separators separate both substances (water & oil), allowing for the rinsed water to easily be discarded. The limited amount of oil that remains has to be discharged in a specialized disposal container.



Working principle



Innovative design concept

1. Condensate enters through muffers and depressurizes in the expansion chamber
2. Tower A: White oleophilic filter
3. Cleaner condensate enters tower B
4. Tower B: Active carbon filter
5. Clean condensate

Air Receivers 100-5000L



Stable compressed air storage comes with many benefits

Suitable for any application using compressed air, our air receivers:

- Offer a storage function in order to handle high air consumption, simultaneously also bringing about a reduction in pulsation, velocity and temperature,
- Stabilize pressure peaks and provide a stable air flow which is most beneficial for your compressed air network as well as the pneumatic tools using the compressed air.
- Perform a preliminary separation and removal of condensate improving the lifetime and reliability of your compressed air network.



CP receivers are available

- Painted
- Galvanized
- Internally treated with Vitroflex coating

Painted standard vessels

Capacity (L)	100	200	270	500	720	900	1000	1500	2000	3000	4000	5000
Pressure (bar)	11	11	11	11	10,8	11	12	11,5	11,5	11,5	11,5	11,5
Diameter Ø	370	446	500	600	750	800	800	1000	1000	1200	1450	1450
H tot (mm)	1172	1570	1668	2055	2030	2120	2315	2305	2805	2965	3070	3570
h (mm)	124	174	170	155	150	130	115	180	180	185	180	180
a	3/4"	1"	1"	1"	1"	1 1/2"	2"	2"	2"	3"	3"	3"
b	3/4"	1"	1"	1"	1"	1 1/2"	2"	2"	2"	3"	3"	3"
c	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/4"	3/4"	3/4"	3/4"	3/4"
d	3/8"	3/8"	N.A.	N.A.	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
e	1/2"	1/2"	1/2"	2"	2"	2"	2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
f	1/2"	1/2"	1/2"	2"	2"	2"	2"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
l (mm)	298	397	599	775	895	860	745	590	595	700	780	780
m (mm)	998	1222	1304	1560	1705	1780	1685	1860	2355	2410	2430	2930
Kit type included	1	2	3	4	4	6	7	B	B	B	not included	
Weight (kg)	37	51	62	127	180	200	204	278	352	537	802	923
Norm & standards	2009/105/CE						97/23/CE (PED)					

Galvanized/Vitroflex* standard vessels

Capacity (L)	100	200	270	500	720	900	1000	1500	2000	3000	4000	5000
Pressure (bar)	11	11	11	11	10,8	11	11,5	11,5	11,5	11,5	11,5	11,5
Diameter Ø	370	430	500	600	790	790	790	1000	1000	1200	1450	1450
H tot (mm)	1229	1530	1685	2077	1863	2213	2345	2305	2805	2965	3070	3570
h (mm)	176	135	192	174	200	200	200	180	180	185	180	180
a	3/4"	3/4"	3/4"	1"1/2	1"1/2	2"	2"	2"	2"	3"	3"	3"
b	3/4"	3/4"	3/4"	1"1/2	1"1/2	2"	2"	2"	2"	3"	3"	3"
c	3/8"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
d	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
e	2"	2"	2"	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4
f	2"	2"	2"	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4	1"1/4
l (mm)	447	397	442	689	690	800	725	590	595	700	780	780
m (mm)	1055	1280	1422	1689	1440	1800	1725	1860	2355	2410	2430	2930
Kit type included	1	A	A	A	A	A	B	B	B	B	not included	
Weight (kg) Vitroflex	N.A.	50	60	130	167	190	204	278	352	537		
Weight (kg) Galvanized	40	55	66	143	184	209	224	306	387	591	882	1025
Norm & standards	2009/105/CE						97/23/CE (PED)					

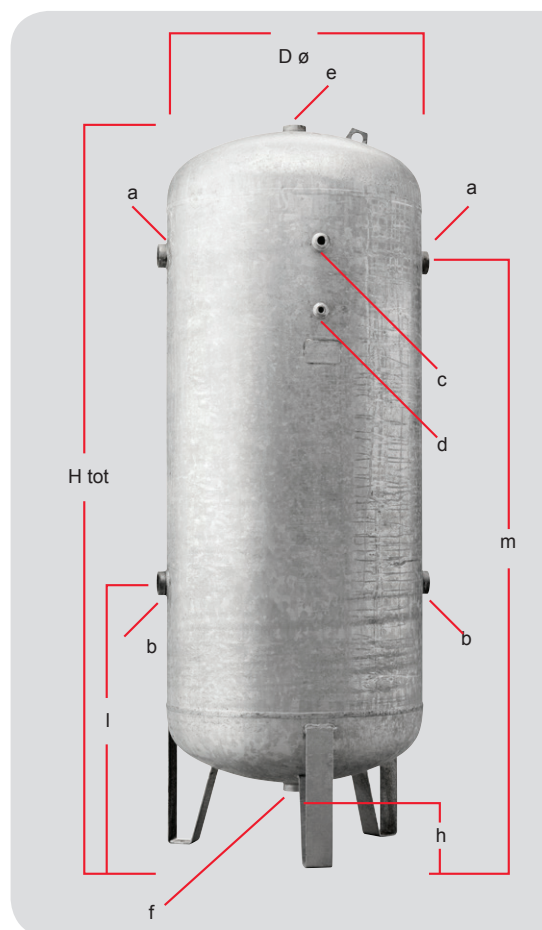
* Vitroflex is available up to 200 l

Painted high pressure vessels

Capacity (L)	500	1000	2000	3000	4000	5000
Pressure (bar)	16	16	16	16	16	16
Diameter Ø	600	800	1000	1200	1430	1430
H tot (mm)	2055	2315	2810	2930	3110	3610
h (mm)	155	115	175	170	190	190
a	1"	2"	2"	2"	2"	2"
b	1"	2"	2"	2"	2"	2"
c	3/8"	3/8"	3/4"	3/4"	3/4"	3/4"
d	N.A.	3/8"	3/8"	3/8"	3/8"	3/8"
e	2"	2"	2"	2"	2"	2"
f	2"	2"	2"	2"	2"	2"
l (mm)	775	745	565	645	765	765
m (mm)	1560	1685	2340	2370	2450	2950
Kit type included	5	8	C	C	not included	
Weight (kg)	159	246	490	620	905	1055
Norm & standards	2009/105/CE	97/23/CE (PED)				

Vitroflex high pressure vessels

Capacity (L)	500	1000	2000	3000	4000	5000
Pressure (bar)	16	16	16	16	16	16
Diameter Ø	600	790	1000	1200	1430	1430
H tot (mm)	2120	2365	2810	2930	3110	3610
h (mm)	175	200	175	170	190	190
a	2"	2"	2"	2"	2"	2"
b	2"	2"	2"	2"	2"	2"
c	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
d	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
e	2"	2"	2"	2"	2"	2"
f	2"	2"	2"	2"	2"	2"
l (mm)	485	530	565	645	765	765
m (mm)	1745	1725	2340	2370	2450	2950
Kit type included	C	C	C	C	not included	
Weight (kg) Vitroflex	160	280	490	620	905	1055
Weight (kg) Galvanized	176	308	539	682	995	1160
Norm & standards	2009/105/CE	97/23/CE (PED)				



How to select the size of my receiver?

- Your air receiver capacity should be at least 1/4 of the free air delivery expressed in m³/min, or
- Based on the compressor's motor power and calculate the capacity:

Motorpower in HP x 30= vessel capacity [l]

Chicago Pneumatic: full offer, global presence



Piston compressors



Screw compressors



Industrial & vehicle service tools



Portable compressors & generators



Construction equipment



Care. Trust. Efficiency.

Care.

Care is what service is all about: professional service by knowledgeable people, using high-quality original parts.

Trust.

Trust is earned by delivering on our promises of reliable, uninterrupted performance and long equipment lifetime.

Efficiency.

Equipment efficiency is ensured by regular maintenance. Efficiency of the service organization is how Original Parts and Service make the difference.

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